

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/578,493A

Source: FWO.

Date Processed by STIC: 2/16/07

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 02/16/2007

PATENT APPLICATION: US/10/578,493A

TIME: 15:08:54

Input Set : E:\Sequence Listing (67987.2).txt

Output Set: N:\CRF4\02162007\J578493A.raw

3 <110> APPLICANT: Desire, Laurent  
 5 <120> TITLE OF INVENTION: BACE455, AN ALTERNATIVE SPLICE VARIANT OF THE HUMAN  
 6 BETA-SECRETASE  
 8 <130> FILE REFERENCE: 67987.000002  
 10 <140> CURRENT APPLICATION NUMBER: 10/578,493A  
 11 <141> CURRENT FILING DATE: 2006-05-05  
 13 <150> PRIOR APPLICATION NUMBER: PCT/IB2004/003897  
 14 <151> PRIOR FILING DATE: 2004-11-05  
 16 <150> PRIOR APPLICATION NUMBER: 60/517,401  
 17 <151> PRIOR FILING DATE: 2003-11-06  
 19 <160> NUMBER OF SEQ ID NOS: 34  
 21 <170> SOFTWARE: PatentIn version 3.3  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 1368  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Homo sapiens  
 28 <400> SEQUENCE: 1  
 29 atggcccaag ccctgcccctg gctcctgctg tggatgggag cgaggagtgt gcctgcccac 60  
 31 ggcacccagc acggcatccg gctgcccctg cgcagcggcc tggggggcgc cccctggggg 120  
 33 ctgcggctgc cccggggagac cgacgaagag cccgaggagc ccggccggag gggcagcttt 180  
 35 gtggagatgg tggacaacct gaggggcaag tcggggcagg gctactacgt ggagatgacc 240  
 37 gtgggcagcc cccgcagac gctcaacatc ctggtggata caggcagcag taactttgca 300  
 39 gtgggtgctg cccccaccc ctctctgcat cgctactacc agaggcagct gtccagcaca 360  
 41 taccgggacc tccggaaggg tgtgtatgtg ccctacaccc agggcaagtg ggaaggggag 420  
 43 ctgggcaccg acctggttaag catcccccat ggccccaacg tcaactgtgc tgccaacatt 480  
 45 gctgccatca ctgaatcaga caagttcttc atcaacggct ccaactggga aggcattctg 540  
 47 gggctggcct atgctgagat tgccaggatc attggaggta tcgaccactc gctgtacaca 600  
 49 ggcagtctct ggtatacacc catccggcgg gagtgggtatt atgaggtcatt cattgtgcgg 660  
 51 gtggagatca atggacagga tctgaaaatg gactgcaagg agtacaacta tgacaagagc 720  
 53 attgtggaca gtggcaccac caaccttcgt ttgcccaga aagtgtttga agctgcagtc 780  
 55 aaatccatca aggcagcctc ctccacggag aagttccctg atggttttct gctaggagag 840  
 57 cagctggtgt gctggcaagc aggcaccacc ccttggaaca ttttcccagt catctcactc 900  
 59 tacctaattg gtgaggttac caaccagtcc ttccgcata ccactcctcc gcagcaatac 960  
 61 ctgcggccag tgggaagatg ggccacgtcc caagacgact gttacaagtt tgccatctca 1020  
 63 cagtcatcca cgggcactgt tatgggagct gttatcatgg agggcttcta cgttgtcttt 1080  
 65 gatcgggccc gaaaacgaat tggctttgct gtcagcgctt gccatgtgca cgatgagttc 1140  
 67 agggcggcag cgggtggaagg cccttttctc accttgga tgggaagactg tggctacaac 1200  
 69 attccacaga cagatgagtc aacctctatg accatagcct atgtcatggc tgccatctgc 1260  
 71 gccctcttca tgctgccact ctgcctcatg gtgtgtcagt ggcgctgcct ccgctgcctg 1320  
 73 cgccagcagc atgatgactt tgctgatgac atctccctgc tgaagtga 1368  
 76 <210> SEQ ID NO: 2  
 77 <211> LENGTH: 455  
 78 <212> TYPE: PRT

*see p. 6*

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79 &lt;213&gt; ORGANISM: Homo sapiens

81 &lt;400&gt; SEQUENCE: 2

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83 Met Ala Gln Ala Leu Pro Trp Leu Leu Leu Trp Met Gly Ala Gly Val
84 1          5          10          15
87 Leu Pro Ala His Gly Thr Gln His Gly Ile Arg Leu Pro Leu Arg Ser
88          20          25          30
91 Gly Leu Gly Gly Ala Pro Leu Gly Leu Arg Leu Pro Arg Glu Thr Asp
92          35          40          45
95 Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val Glu Met Val
96          50          55          60
99 Asp Asn Leu Arg Gly Lys Ser Gly Gln Gly Tyr Tyr Val Glu Met Thr
100 65          70          75          80
103 Val Gly Ser Pro Pro Gln Thr Leu Asn Ile Leu Val Asp Thr Gly Ser
104          85          90          95
107 Ser Asn Phe Ala Val Gly Ala Ala Pro His Pro Phe Leu His Arg Tyr
108          100          105          110
111 Tyr Gln Arg Gln Leu Ser Ser Thr Tyr Arg Asp Leu Arg Lys Gly Val
112          115          120          125
115 Tyr Val Pro Tyr Thr Gln Gly Lys Trp Glu Gly Glu Leu Gly Thr Asp
116          130          135          140
119 Leu Val Ser Ile Pro His Gly Pro Asn Val Thr Val Arg Ala Asn Ile
120 145          150          155          160
123 Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly Ser Asn Trp
124          165          170          175
127 Glu Gly Ile Leu Gly Leu Ala Tyr Ala Glu Ile Ala Arg Ile Ile Gly
128          180          185          190
131 Gly Ile Asp His Ser Leu Tyr Thr Gly Ser Leu Trp Tyr Thr Pro Ile
132          195          200          205
135 Arg Arg Glu Trp Tyr Tyr Glu Val Ile Ile Val Arg Val Glu Ile Asn
136          210          215          220
139 Gly Gln Asp Leu Lys Met Asp Cys Lys Glu Tyr Asn Tyr Asp Lys Ser
140 225          230          235          240
143 Ile Val Asp Ser Gly Thr Thr Asn Leu Arg Leu Pro Lys Lys Val Phe
144          245          250          255
147 Glu Ala Ala Val Lys Ser Ile Lys Ala Ala Ser Ser Thr Glu Lys Phe
148          260          265          270
151 Pro Asp Gly Phe Trp Leu Gly Glu Gln Leu Val Cys Trp Gln Ala Gly
152          275          280          285
155 Thr Thr Pro Trp Asn Ile Phe Pro Val Ile Ser Leu Tyr Leu Met Gly
156          290          295          300
159 Glu Val Thr Asn Gln Ser Phe Arg Ile Thr Ile Leu Pro Gln Gln Tyr
160 305          310          315          320
163 Leu Arg Pro Val Glu Asp Val Ala Thr Ser Gln Asp Asp Cys Tyr Lys
164          325          330          335
167 Phe Ala Ile Ser Gln Ser Ser Thr Gly Thr Val Met Gly Ala Val Ile
168          340          345          350
171 Met Glu Gly Phe Tyr Val Val Phe Asp Arg Ala Arg Lys Arg Ile Gly
172          355          360          365
175 Phe Ala Val Ser Ala Cys His Val His Asp Glu Phe Arg Thr Ala Ala

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176      370      375      380
179 Val Glu Gly Pro Phe Val Thr Leu Asp Met Glu Asp Cys Gly Tyr Asn
180 385      390      395      400
183 Ile Pro Gln Thr Asp Glu Ser Thr Leu Met Thr Ile Ala Tyr Val Met
184      405      410      415
187 Ala Ala Ile Cys Ala Leu Phe Met Leu Pro Leu Cys Leu Met Val Cys
188      420      425      430
191 Gln Trp Arg Cys Leu Arg Cys Leu Arg Gln Gln His Asp Asp Phe Ala
192      435      440      445
195 Asp Asp Ile Ser Leu Leu Lys
196      450      455
199 <210> SEQ ID NO: 3
200 <211> LENGTH: 6
201 <212> TYPE: PRT
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Chemically Synthesized
207 <400> SEQUENCE: 3
209 Ile Ala Arg Ile Ile Gly
210 1      5
213 <210> SEQ ID NO: 4
214 <211> LENGTH: 7
215 <212> TYPE: PRT
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Chemically Synthesized
221 <400> SEQUENCE: 4
223 Glu Ile Ala Arg Ile Ile Gly
224 1      5
227 <210> SEQ ID NO: 5
228 <211> LENGTH: 8
229 <212> TYPE: PRT
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Chemically Synthesized
235 <400> SEQUENCE: 5
237 Glu Ile Ala Arg Ile Ile Gly Gly
238 1      5
241 <210> SEQ ID NO: 6
242 <211> LENGTH: 8
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Chemically Synthesized
249 <400> SEQUENCE: 6
251 Ala Glu Ile Ala Arg Ile Ile Gly
252 1      5
255 <210> SEQ ID NO: 7
256 <211> LENGTH: 9

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Input Set : E:\Sequence Listing (67987.2).txt

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257 <212> TYPE: PRT  
258 <213> ORGANISM: Artificial Sequence  
260 <220> FEATURE:  
261 <223> OTHER INFORMATION: Chemically Synthesized  
263 <400> SEQUENCE: 7  
265 Ala Glu Ile Ala Arg Ile Ile Gly Gly  
266 1 5  
269 <210> SEQ ID NO: 8  
270 <211> LENGTH: 10  
271 <212> TYPE: PRT  
272 <213> ORGANISM: Artificial Sequence  
274 <220> FEATURE:  
275 <223> OTHER INFORMATION: Chemically Synthesized  
277 <400> SEQUENCE: 8  
279 Ala Glu Ile Ala Arg Ile Ile Gly Gly Ile  
280 1 5 10  
283 <210> SEQ ID NO: 9  
284 <211> LENGTH: 9  
285 <212> TYPE: PRT  
286 <213> ORGANISM: Artificial Sequence  
288 <220> FEATURE:  
289 <223> OTHER INFORMATION: Chemically Synthesized  
291 <400> SEQUENCE: 9  
293 Tyr Ala Glu Ile Ala Arg Ile Ile Gly  
294 1 5  
297 <210> SEQ ID NO: 10  
298 <211> LENGTH: 10  
299 <212> TYPE: PRT  
300 <213> ORGANISM: Artificial Sequence  
302 <220> FEATURE:  
303 <223> OTHER INFORMATION: Chemically Synthesized  
305 <400> SEQUENCE: 10  
307 Tyr Ala Glu Ile Ala Arg Ile Ile Gly Gly  
308 1 5 10  
311 <210> SEQ ID NO: 11  
312 <211> LENGTH: 11  
313 <212> TYPE: PRT  
314 <213> ORGANISM: Artificial Sequence  
316 <220> FEATURE:  
317 <223> OTHER INFORMATION: Chemically Synthesized  
319 <400> SEQUENCE: 11  
321 Tyr Ala Glu Ile Ala Arg Ile Ile Gly Gly Ile  
322 1 5 10  
325 <210> SEQ ID NO: 12  
326 <211> LENGTH: 18  
327 <212> TYPE: DNA  
328 <213> ORGANISM: Artificial Sequence  
330 <220> FEATURE:  
331 <223> OTHER INFORMATION: probe

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333 <400> SEQUENCE: 12
334 attgccagga tcattgga 18
337 <210> SEQ ID NO: 13
338 <211> LENGTH: 10
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial Sequence
342 <220> FEATURE:
343 <223> OTHER INFORMATION: primer
345 <400> SEQUENCE: 13
346 aggcatacctg 10
349 <210> SEQ ID NO: 14
350 <211> LENGTH: 10
351 <212> TYPE: DNA
352 <213> ORGANISM: Artificial Sequence
354 <220> FEATURE:
355 <223> OTHER INFORMATION: primer
357 <400> SEQUENCE: 14
358 gggctggcct 10
361 <210> SEQ ID NO: 15
362 <211> LENGTH: 10
363 <212> TYPE: DNA
364 <213> ORGANISM: Artificial Sequence
366 <220> FEATURE:
367 <223> OTHER INFORMATION: primer
369 <400> SEQUENCE: 15
370 atgctgagat 10
373 <210> SEQ ID NO: 16
374 <211> LENGTH: 6
375 <212> TYPE: DNA
376 <213> ORGANISM: Artificial Sequence
378 <220> FEATURE:
379 <223> OTHER INFORMATION: primer
381 <400> SEQUENCE: 16
382 tgccag 6
385 <210> SEQ ID NO: 17
386 <211> LENGTH: 6
387 <212> TYPE: DNA
388 <213> ORGANISM: Artificial Sequence
390 <220> FEATURE:
391 <223> OTHER INFORMATION: primer
393 <400> SEQUENCE: 17
394 gatcat 6
397 <210> SEQ ID NO: 18
398 <211> LENGTH: 10
399 <212> TYPE: DNA
400 <213> ORGANISM: Artificial Sequence
402 <220> FEATURE:
403 <223> OTHER INFORMATION: primer
405 <400> SEQUENCE: 18

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:33; Xaa Pos. 5

**VERIFICATION SUMMARY**

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Input Set : E:\Sequence Listing (67987.2).txt

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L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0